

All are well aware of the Scaffolding material for Shuttering for Construction.

The main material to scaffold are

- 1) Marine ply, which are replaced by metal sheets,



- 2) TMT Bars



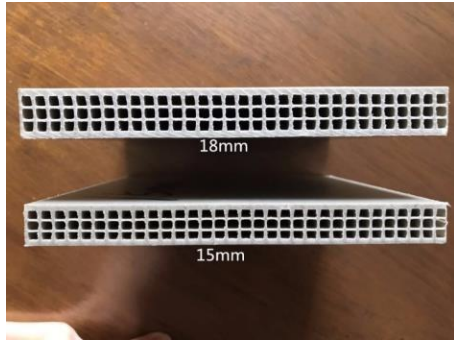
- 3) Bamboo support or steel supports:



These are costly material needing multi million to manufacture and set up manufacturing of such products.

The options are available and as usual plastic comes to the rescue.

- 1) **Recycled High Density polyethylene and Calcium carbonate made boards** last for 60 to 100 times depending upon whether they are made from Recycled or Virgin plastic. This replaces Marine ply for shuttering which lasts for 8 to 10 times only. AND they do not need oil while using, offer nice plain surface of construction and offer at least 50% of the original costs when sold for recycling.



- 2) TMT bars are replaced by **Glass fiber Rebars** are much stronger than steel, never gets rusted and are much lighter.



- 3) **PVC Support sections.** Also as it is made of plastics, never get rusted are lighter by weight and so easy to handle and 100% Recyclable as usual plastic.



And have a look at the following figures:

Cost in Rs. Cr depending upon the company that we chose with duties and one USD = Rs. 84	To replace	Machinery cost From Cr.	Machinery cost To Cr.	Production in Tons	Production in Units	Initial Investment without Land
HDPE Construction board	Metal Sheets and Marine ply for shuttering	2.2	2.6	2386	82275 boards 4 Feet x 8 Feet size 18 mm thick	4 Cr.
PVC Pillars / Beams for Support	Bamboo Bars or Metal Bars or wooden support pillars	0.95	1.1	1500	882300 Meters for 1.7 Kg / Meter weight and 40 x 80 mm size I Beam section	1.91Cr.
Glass Fiber RP Rebars	Metal TMT bars	0.61	0.81	1147	4612600 Meters 12 mm diameter	2.12 Cr.

i.e. to make such alternative products, it is much cheaper needs not much of investment and small investors can venture in to this easily for the huge market size BECAUSE the construction is booming like anything.

Do revert in case interested.

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The author is a Professional consultant, assisting to set up new projects right from scratch till the first KG of material comes out of the plant.